

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/603,832	06/26/2000	Leslie H. Kondejewski	7900-0015.30	2421	
22918 75	90 01/25/2002				
PERKINS COIE LLP			EXAMINER		
P.O. BOX 2168 MENLO PARK			CHAKRABARTI, ARUN K		
			ART UNIT	PAPER NUMBER	
			1655 DATE MAILED: 01/25/2002	10	

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No. 09/603.832 Applicant(e)

Kondejewski

Examiner

Arun Chakrabarti

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM

- THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

ea.	mea patent term adjustment. See 37 CFR 1.704(b).	
Status		
1) 🗶	Responsive to communication(s) filed on Jan 4, 2002	

2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is

## closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims

2a) This action is FINAL.

4) 🔀 Claim(s) 1-9		is/are pending in the application.		
4a) Of the above, claim(s)		is/are withdrawn from consideration.		
5) Clair	m(s)	is/are allowed.		
6) 💢 Clai	m(s) <u>1-9</u>	is/are rejected.		
7) 🗆 Clair	m(s)	is/are objected to.		
8) 🗆 Clair	ns	are subject to restriction and/or election requirement.		
Application Papers				
9) The	specification is objected to by the Examine	r.		

- 10)☐ The drawing(s) filed on \_\_\_\_is/are objected to by the Examiner.
- 11) The proposed drawing correction filed on is: a) approved b) disapproved.
- 12) The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

3)	Acknowledgement is made of a claim	for foreign priority under	35 U.S.C.	§ 119(a)-(d)

- al □ All bl □ Some \* cl □ None of:
  - 1. Certified copies of the priority documents have been received.
  - 2. Certified copies of the priority documents have been received in Application No.
- 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \*See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

# Attachment(s)

- 15) X Notice of References Cited (PTO-892)
- 16) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 19) Notice of Informal Patent Application (PTO-152)
- 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

18) Interview Summary (PTG-413) Paper No(s).

#### DETAILED ACTION

### Specification

The applicant has amended claim 1 and the specification on page 5, 15, and 16.

### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
  obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CAR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

- Claims 1-5 are rejected under 35 U.S.C. 103(a) over Anderson (U.S. Patent 6,242,213
   June 5, 2001) in view of Yan (U.S. Patent 5,856,928) (January 5, 1999).
- Anderson teaches a coiled-coil polypeptide composition (Column 6, line 65 to column 7, line 1), comprising

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a template of the form (abcdefg)n (Column 6, lines 18-24), where n is at least three, a and d are amino acids selected from the group consisting of leucine and isoleucine (Column 6, line 18 to column 7, line 1).

Anderson inherently teaches the sequence formed by the positions (bcdefg)n is a sequence of amino acids from a solvent-accessible region of an epitope from a selected protein (Column 6, lines 24-25). This rejection is based on the fact that segments of proteins containing polar amino acids are defined as solvent-accessible region. In this case, segments g and e containing oppositely charged residues will inherently provide the solvent-accessible region of an epitope from a selected protein.

Anderson teaches the composition where a is isoleucine and d is leucine (Column 6, line 65 to column 7, line 1).

Anderson teaches the composition wherein the coiled-coil polypeptide is comprised of two polypeptide chains arranged in a parallel configuration (Column 6, lines 14-29 and Column 6, line 65 to column 7, line 1).

Anderson teaches the composition wherein n is seven which is in between about 3 to about 20 (Column 6, lines 18-24).

Anderson does not teach the composition, wherein the solvent-accessible region is not in a coiled-coil conformation in its native state.

Yan teaches the composition (prion protein in this case), wherein the solvent-accessible region is not in a coiled-coil conformation in its native state (Column 40, lines 47-59).

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It would have been *prima facie* obvious to one having ordinary skill in the art at the time the invention was made to substitute and combine the composition (prion protein in this case), wherein the solvent-accessible region is not in a coiled-coil conformation in its native state of Yan in the polypeptide composition of Anderson, since Yan states, "The gelling proteins-fibrinogen, beta amyloid, and prions- are either wound-healing or disease-causing agents (Column 40, lines 58-59)." An ordinary practitioner would have been motivated to substitute and combine the composition (prion protein in this case), wherein the solvent-accessible region is not in a coiled-coil conformation in its native state of Yan in the polypeptide composition of Anderson in order to achieve the express advantages, as noted by Yan, of an invention that can detect gelling proteins- fibrinogen, beta amyloid, and prions- which are either wound-healing or disease-causing agents.

Claims 1-9 are rejected under 35 U.S.C. 103 (a) over Anderson (U.S. Patent 6,242,213
 B1) (June 5, 2001) in view of Yan (U.S. Patent 5,856,928) (January 5, 1999) further in view of Prusiner et al. (U.S. Patent 5,792,901) (August 11, 1998).

Anderson in view of Yan teach the polypeptide composition of claims 1-5 as described above including the alpha-helical surface regions of cellular proteins (Column 6, lines 18-40).

Anderson in view of Yan do not teach the epitopes are exposed surface regions of infectious prion protein.

Prusiner et al. teach the epitopes are exposed surface regions of infectious prion protein (Abstract and Example 4).

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Anderson in view of Yan do not teach the cellular prion protein is from hamster or human.

Prusiner et al. teaches the cellular prion protein is from human (Abstract and Example 4).

Anderson in view of Yan do not teach the epitope having SEQ ID NO:5.

Prusiner et al. teach the epitope having SEQ ID NO:5 (Figure 3).

It would have been prima facie obvious to one having ordinary skill in the art at the time the invention was made to substitute and combine the epitopes present on the exposed surface regions of infectious prion protein consisting of SEQ ID NO:5 of Prusiner et al. in the polypeptide composition of Anderson in view of Yan, since Prusiner et al. state, "Yet another object of the invention is to provide for a method of testing samples for the presence of prions." (Column 6, lines 17-18). An ordinary practitioner would have been motivated to substitute and combine the epitopes present on the exposed surface regions of infectious prion protein of Prusiner et al. in the polypeptide composition of Anderson in view of Yan, in order to achieve the express advantages, as noted by Prusiner et al., of an invention that provides for a method of testing samples for the presence of prions.

#### Response to Amendment

 In response to amendment, 112 (second paragraph) and 102 (e) rejections have been withdrawn. However, two new 103 (a) rejections have been included.

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#### Response to Arguments

Applicant's arguments with respect to all pending claims have been considered but are
moot in view of the new ground(s) of rejection.

#### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CAR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CAR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun Chakrabarti, Ph.D., whose telephone number is (703)

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306-5818. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached on (703) 308-1152. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196. Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission via the P.T.O. Fax Center located in Crystal Mall 1. The CM1 Fax Center numbers for Technology Center 1600 are either (703) 305-3014 or (703) 308-4242. Please note that the faxing of such papers must conform with the Notice to Comply published in the Official Gazette, 1096 OG 30 (November 15, 1989).

Arun Chakrabarti

Patent Examiner

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January 22, 2002

W. Gary Jones
Supervisory Patent Examiner
Technology Center 1600